

20 January 2003
Application No.: 09/648,413
Docket: 1002.02

10. (twice amended) A method for constructing an integrated optical monitoring system, comprising:

- installing an optical bench in a hermetic package;
connecting a fiber pigtail to the package to provide an optical signal;
installing a tunable filter on a top of the bench to filter the optical signal from the fiber pigtail; and
installing a detector on the bench to detect the filtered optical signal from the tunable filter.

Please add new claims 19-22, as follows:

19. (new) An optical monitoring system as claimed in claim 1, wherein the fiber pigtail enters the package via a fiber feed-through to connect to the bench and terminate above the bench.

20. (new) An optical monitoring system as claimed in claim 1, wherein the package is hermetic.

21. (new) An optical monitoring system as claimed in claim 1, further comprising:

- a reference signal source, installed on the optical bench, that generates the reference signal;
a reference source lens, installed on the optical bench, for improving the collimation of the reference signal;
a combining filter, installed on the optical bench, that inserts the reference signal into a beam path of optical signal prior to filtering by the tunable filter; and
at least one optical signal lens in the beam path of the optical signal for coupling the reference signal and the optical signal into the tunable filter.

22. (new) A method as claimed in claim 10, further comprising:
installing a reference signal source on the optical bench;